REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arilington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)		J. REPORT TYPE AND	DATES COVERED 7
	3 September 199		DOMINIO DATES COVERED June 96 - Cormance Report July 97
4. TITLE AND SUBTITLE	-		5. FUNDING NUMBERS
	n/Integrated Marine Tecl gs and purchase of relat		G-N00014-96-1-0873
6. AUTHOR(S)			1
John W. Wubben			
7. PERFORMING ORGANIZATION NA			8. PERFORMING ORGANIZATION
Marine and Environments c/o Clatsop Communit 1653 Jerome Avenue	ntal Research & Training y College	g Station (MERTS)	MERTS2-1996-97
Astoria, OR 97103			
9. SPONSORING / MONITORING AGE			10. SPONSORING / MONITORING
Office of Naval Resear			AGENCY REPORT NUMBER
	Id A. DeMarco ONR 33 One, 800 North Quincy	Street	
11. SUPPLEMENTARY NOTES			
THE SOLVELINE PLANT NOTES			
			,
a. DISTRIBUTION / AVAILABILITY STA	ATEMENT		12. DISTRIBUTION CODE
Available to the public			
13. ABSTRACT (Maximum 200 words,	J		
grant: (1) employment of a qualified Contract MERTS Field Research Price; (5) purchase of r including: (a) a comple- the period 21 April 97	of a qualified architect; : Manager/General Contr /Integrated Marine Tech related, selected materia tion date of 18 Decembe	(2) completion of actor; (4) contract nology Center, with als and equipment; er 97; (b) constructing the status of ke	coses of the referenced facility design; (3) selection ing for completion of the h a Guaranteed Maximum (6) progress on construction, ion progress report covering by construction elements;
14. SUBJECT TERMS			15. NUMBER OF PAGES
			16. PRICE CODE
7. SECURITY CLASSIFICATION			
OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICA OF ABSTRACT Unclassified	ATION 20. LIMITATION OF ABSTRACT

GENERAL INSTRUCTIONS FOR COMPLETING SF 298

The Report Documentation Page (RDP) is used in announcing and cataloging reports. It is important that this information be consistent with the rest of the report, particularly the cover and title page. Instructions for filling in each block of the form follow. It is important to stay within the lines to meet optical scanning requirements.

- Block 1. Agency Use Only (Leave blank).
- Block 2. Report Date. Full publication date including day, month, and year, if available (e.g. 1 Jan 88). Must cite at least the year.
- Block 3. Type of Report and Dates Covered. State whether report is interim, final, etc. If applicable, enter inclusive report dates (e.g. 10 June 87 30 June 88.
- Block 4. <u>Title and Subtitle</u>. A title is taken from the part of the report that provides the most meaningful and complete information. When a report is prepared in more than one volume, repeat the primary title, add volume number, and include subtitle for the specific volume. On classified documents enter the title classification in parentheses.
- Block 5. Funding Numbers. To include contract and grant numbers; may include program element number(s), project number(s), task number(s), and work unit number(s). Use the following labels:

C - Contract PR - Project
G - Grant TA - Task
PE - Program WU - Work Unit
Element Accession No.

- Block 6. <u>Author(s)</u>. Name(s) of person(s) responsible for writing the report, performing the research, or credited with the content of the report. If editor or compiler, this should follow the name(s).
- Block 7. Performing Organization Name(s) and Address(es). Self-explanatory.
- Block 8. <u>Performing Organization Report</u>
 Number. Enter the unique alphanumeric report number(s) assigned by the organization performing the report.
- Block 9. Sponsoring/Monitoring Agency Names(s) and Address(es). Self-explanatory.
- Block 10. Sponsoring/Monitoring Agency Report Number. (If known)
- Block 11. Supplementary Notes. Enter information not included elsewhere such as: Prepared in cooperation with...; Trans. of ...; To be published... When a report is revised, include a statement whether the new report supersedes or supplements the older report.

Block 12a. <u>Distribution/Availability Statement</u>. Denotes public availability or limitations. Cite any availability to the public. Enter additional limitations or special markings in all capitals (e.g. NOFORN, REL, ITAR).

DOD - See DODD 5230.24, "Distribution Statements on Technical Documents."

DOE - See authorities.

NASA - See Handbook NHB 2200.2.

NTIS - Leave blank.

Block 12b. Distribution Code.

DOD - Leave blank.

DOE - Enter DOE distribution categories from the Standard Distribution for Unclassified Scientific and Technical Reports.

NASA - Leave blank. NTIS - Leave blank.

- Block 13. Abstract. Include a brief (Maximum 200 words) factual summary of the most significant information contained in the report.
- Block 14. <u>Subject Terms</u>. Keyword or phrases identifying major subjects in the report.
- Block 15. <u>Number of Pages</u>. Enter the total number of pages.
- Block 16. Price Code. Enter appropriate price code (NTIS only).
- Blocks 17. 19. <u>Security Classification</u>. Self-explanatory. Enter U. S. Security Classification in accordance with the U.S. Security Regulations (i.e., UNCLASSIFIED). If form contains classified information, stamp classification on the top and bottom of the page.
- Block 20. <u>Limitation of Abstract</u>. This block must be completed to assign a limitation to the abstract. Enter either UL (unlimited) or SAR (same as report). An entry in this block is necessary if the abstract is to be limited. If blank, the abstract is assumed to be unlimited.

Marine and Environmental Research and Training Station, Inc.

c/o Clatsop Community College

1653 Jerome Avenue ◆ Astoria, Oregon ◆ 97103 ◆ (503) 325-0910

MEMORANDUM

TO:

Ronald A. De Marco, Ph. D., Head of Engineering, Materials, and

Physical Sciences, S & T Dept., Office of Naval Research

FROM:

John Wubben, Principal Investigator Amburblem

SUBJECT:

Annual Performance Report for Grant #N00014-96-1-0873

DATE:

September 3, 1997

The following steps have been taken to date to complete the purposes of the referenced grant:

- 1. Employment of a qualified architect, Mahlum and Nordfors Smith Gordon.
- 2. Completion of facility design by the architect.
- 3. Selection of a qualified Contract Manager/General Contractor (CM/GC), S.D. Deacon, Inc., for the facilities construction project.
- 4. Agreement between the architect, CM/GC, and MERTS, Inc., on a contract for completion of the MERTS Field Research/Integrated Marine Technology Center, with a Guaranteed Maximum Price (GMP) which is consistent with the terms of the grant.

- 5. Purchase of related, selected materials and equipment consistent with the terms of the grant.
- 6. Progress on construction of the MERTS Field Research/Integrated Marine Technology Center, documented as follows:
 - a. An agreed-upon completion date of 18 December 97, as reflected in the enclosed CPM chart (Attachment A). This chart also documents progress on all phases of construction as of 20 August 97.
 - b. Construction progress report covering the period 21 April 97 to 28 August 97 (Attachment B) by Al Jaques, Project Manager. This report details key construction elements and their status as completed, ongoing, or scheduled. As of 28 August 97 construction was 20 days behind schedule, but efforts are being made to make up for the lost time (see page 2 of Attachment B). Given that the projected completion date is 18 December 97, and the grant period runs through 14 February 98, we feel there is more than adequate time to complete the project by the conclusion of the grant period.
 - c. Photographs taken over a period of days from 15 August 97 to 28 August 97, showing the progress of the construction, which provides graphic illustration of points made in Attachments A and B.

Dr. De Marco, we truly appreciate your excellent assistance and support in progressing toward completion of this grant.

If I make provide additional information or clarification of this report, please contact me.

Merts/phaseII/an.report/onr



Marine
Environmental
Research
Traning
Station

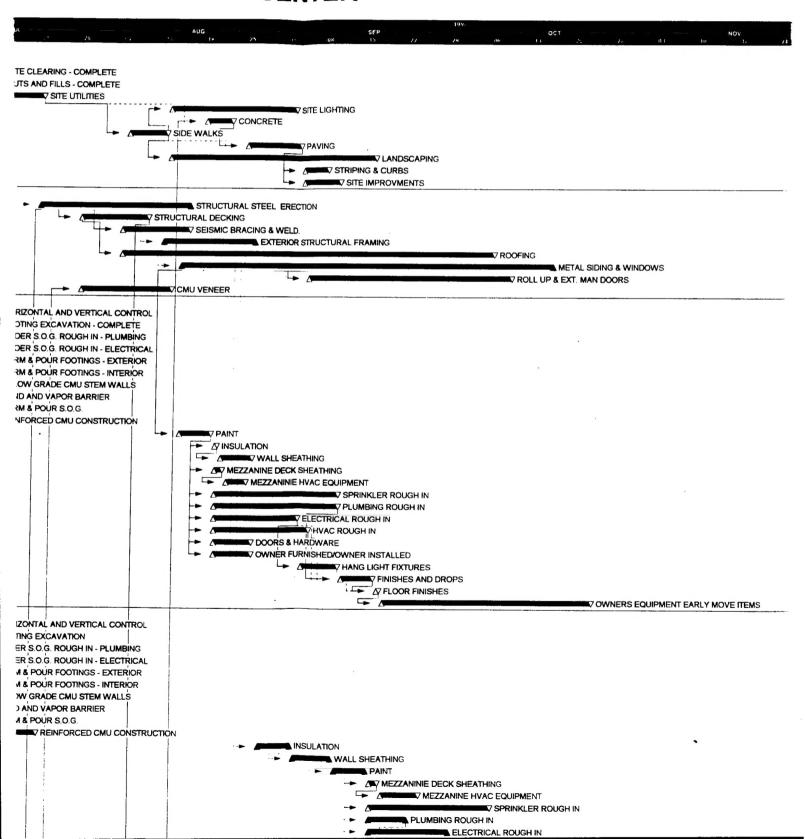
FIELD F INTE M/ TECH CE

Astoria, Oregon

Act	Description	Orig Dur	Rom Cur	Early Start	Early Finish	
EW PHAS	Ell					
	The state of the s					
1000	SITE CLEARING - COMPLETE	0		14JUL97	11JUL97	A SITE CLEARING - COMPLETE
1020	CUTS AND FILLS - COMPLETE	0		14JUL97	11JUL97	CUTS AND FILLS - COMPLETE
1040	SITE UTILITIES	5d		15JUL97	21JUL97	SITE UTILITIES
1060	SITE LIGHTING	15d		12AUG97	02SEP97	The second
1080	CONCRETE	5d		18AUG97	22AUG97	CONC
1090	SIDE WALKS	5d		05AUG97	11AUG97	SIDE WALKS
1100	PAVING	7d		25AUG97	03SEP97	
1140	LANDSCAPING	25d		12AUG97	16SEP97	
1160	STRIPING & CURBS	3d		04SEP97	08SEP97	
1180	SITE IMPROVMENTS	5d	5d	04SEP97	10SEP97	
	TOTAL CONTRACTOR OF THE CONTRA	204	204	24 11 11 07	15411007	STRUCTURAL ST
1420	STRUCTURAL STEEL ERECTION	20d		21JUL97	15AUG97	A STRUCTURAL DECKING
1430	STRUCTURAL DECKING	10d		28JUL97	08AUG97 15AUG97	SINGUISTIC BESIDENCE SESSION OF THE
1440	SEISMIC BRACING & WELD.	10d		04AUG97		
1480	EXTERIOR STRUCTURAL FRAMING	12d		11AUG97	26AUG97	- 4
1500	ROOFING	45d		04AUG97	08OCT97	
1520	METAL SIDING & WINDOWS	45d		14AUG97	16OCT97	
1580	ROLL UP & EXT. MAN DOORS	25d	_	05SEP97	09OCT97	CMU VENEER
2100	CMU VENEER	12d	120	28JUL97	12AUG97	CMU VENEER
DE 40	LICENSON AND LICENSON CONTROL	0	-	14JUL97	11JUL97	1-7- A HORIZONTAL AND VERTICAL CONTROL
2540	HORIZONTAL AND VERTICAL CONTROL	0		14JUL97	11JUL97	V A FOOTING EXCAVATION - COMPLETE
2560	FOOTING EXCAVATION - COMPLETE	0		14JUL97	11JUL97	V AUNDER S.O. G. ROUGH IN - PLUMBING
2580	UNDER S.O.G. ROUGH IN - PLUMBING	0		14JUL97	11JUL97	V AUNDER S.O.G. ROUGH IN - ELECTRICAL
2800	UNDER S.O.G. ROUGH IN - ELECTRICAL	0		14JUL97	11JUL97	FORM & POUR FOOTINGS - EXTERIOR
2620	FORM & POUR FOOTINGS - EXTERIOR	0		14JUL97	11JUL97	FORM & POUR FOOTINGS - INTERIOR
2640	FORM & POUR FOOTINGS - INTERIOR	0		14JUL97	11JUL97	BELOW GRADE CMU STEM WALLS
266 0	BELOW GRADE CMU STEM WALLS	0		14JUL97	11JUL97	SAND AND VAPOR BARRIER
2680	SAND AND VAPOR BARRIER	0		14JUL97	11JUL97	FORM & POUR S.O.G.
2700	FORM & POUR S.O.G.	0		14JUL97	11JUL97	REINFORCED CMU CONSTRUCTION
2720	PAINT	4d	_	14JUL97	19AUG97	PAINT
2850	INSULATION	1d		20AUG97	20AUG97	→ Ø INSULATI
2860 2880	WALL SHEATHING	4d		21AUG97	26AUG97	
	MEZZANINE DECK SHEATHING	2d		20AUG97	21AUG97	→ △NV MEZZAI
292 0 294 0	MEZZANINE DECK SHEATHING	2d		22AUG97	25AUG97	
2970	SPRINKLER ROUGH IN	15d		20AUG97	10SEP97	- A
2980	PLUMBING ROUGH IN	15d		20AUG97	10SEP97	→ Δ
3000	ELECTRICAL ROUGH IN	10d		20AUG97	03SEP97	
3020	HVAC ROUGH IN	12d		20AUG97	05SEP97	
3040	DOORS & HARDWARE	5d		20AUG97	26AUG97	
1060 1060	OWNER FURNISHED/OWNER INSTALLED	-		20AUG97	26AUG97	
3080	HANG LIGHT FIXTURES	5d		04SEP97	10SEP97	
3100	FINISHES AND DROPS	4d		11SEP97	16SEP97	
120	FLOOR FINISHES	10		17SEP97	17SEP97	
140	OWNERS EQUIPMENT EARLY MOVE	-		18SEP97	23OCT97	
	Contain Date more	200			1	
260	HORIZONTAL AND VERTICAL CONTROL	0	0	14JUL97	11JUL97	HORIZONTAL AND VERTICAL CONTROL
280	FOOTING EXCAVATION	0		14JUL97	11JUL97	FOOTING EXCAVATION
3300	UNDER S.O.G. ROUGH IN - PLUMBING	0		14JUL97	11JUL97	UNDER S.O.G. ROUGH IN - PLUMBING
320	UNDER S.O.G. ROUGH IN - ELECTRICAL	0		14JUL97	11JUL97	UNDER S.O.G. ROUGH IN - ELECTRICAL
134 0	FORM & POUR FOOTINGS - EXTERIOR	0		14JUL97	11JUL97	FORM & POUR FOOTINGS - EXTERIOR
360	FORM & POUR FOOTINGS - INTERIOR	0		14JUL97	11JUL97	FORM & POUR FOOTINGS - INTERIOR
380	BELOW GRADE CMU STEM WALLS	0		14JUL97	11JUL97	BELOW GRADE CMU STEM WALLS
400	SAND AND VAPOR BARRIER	0		14JUL97	11JUL97	SAND AND VAPOR BARRIER
420	FORM & POUR S.O.G.	0		14JUL97	11JUL97	FORM & POUR S.O.G.
	REINFORCED CMU CONSTRUCTION	4d		16JUL97	21JUL97	ZEINFORCED CMU CONSTRUCTION
344 0		3d	_	28AUG97	02SEP97	
1580	INSULATION	5d		03SEP97	02SEP97	
600	WALL SHEATHING				15SEP97	
362 0	PAINT	4d		10SEP97	-	
164 0	MEZZANINIE DECK SHEATHING	2d		16SEP97	17SEP97	
166 0	MEZZANINE HVAC EQUIPMENT	5d		18SEP97	24SEP97	
690	SPRINKLER ROUGH IN	15d		16SEP97	06OCT97	
3700	PLUMBING ROUGH IN	5d		16SEP97	22SEP97	
700	F. FCTDICAL DOLICULAR	404	404	48CED07	2000007	The second secon



FIELD RESEARCH INTEGRATED MARINE TECHNOLOGY CENTER





RCH

S.D. DEACON Pat Mahoney - PM Chris Crothers - SUPT

LANDSCAPING CURBS ROVMENTS METAL SIDING & WINDOWS TROLL UP & EXT. MAN DOORS

ROUGH IN ROUGH IN

ALLED T FIXTURES NISHES AND DROPS *LOOR FINISHES

OWNERS EQUIPMENT EARLY MOVE ITEMS

IING

EZZANINIE DECK SHEATHING

MEZZANINE HVAC EQUIPMENT

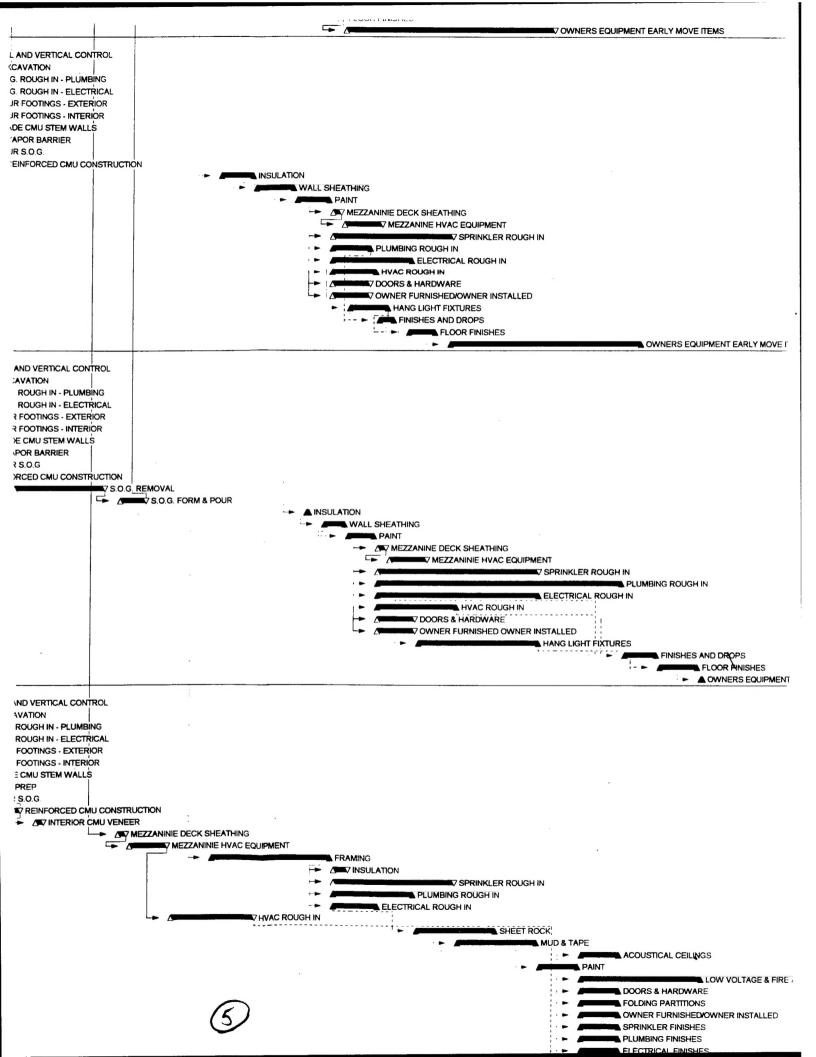
SPRINKLER ROUGH IN

PLUMBING ROUGH IN

ELECTRICAL ROUGH IN

3140	OWNERS EQUIPMENT EARLY MOVE	260	d 26	18SEP97	23OCT97	
3260	HORIZONTAL AND VERTICAL CONTROL		0 (0 14JUL97	11JUL97	
3280		+		14JUL97	11JUL97	FOOTING EXCAVATION
	FOOTING EXCAVATION UNDER S.O.G. ROUGH IN - PLUMBING	1	-	14JUL97	11JUL97	TV ∆UNDER S.O.G. ROUGH IN - PLUMBING
3300		+	+	14JUL97	11JUL97	V AUNDER S.O.G. ROUGH IN - ELECTRICAL
3320	UNDER S.O.G. ROUGH IN - ELECTRICAL		+	0 14JUL97	11JUL97	TO A FORM & POUR FOOTINGS - EXTERIOR
3340	FORM & POUR FOOTINGS - EXTERIOR	0	+	+	11JUL97	FORM & POUR FOOTINGS - INTERIOR
3360	FORM & POUR FOOTINGS - INTERIOR	(_	0 14JUL97		BELOW GRADE CMU STEM WALLS
3380	BELOW GRADE CMU STEM WALLS	+		14JUL97	11JUL97	
3400	SAND AND VAPOR BARRIER	-	_	14JUL97	11JUL97	
3420	FORM & POUR S.O.G.	-	+	14JUL97	11JUL97	3. Stand Solt S.S. S.
3440	REINFORCED CMU CONSTRUCTION	40		16JUL97	21JUL97	REINFORCED CMU CONSTRUCTION
3580	INSULATION	30	-	28AUG97	02SEP97	
3600	WALL SHEATHING	50		03SEP97	09SEP97	
362 0	PAINT	40	1 40	10SEP97	15SEP97	
3640	MEZZANINIE DECK SHEATHING	20	20	16SEP97	17SEP97	
3660	MEZZANINE HVAC EQUIPMENT	50	50	18SEP97	24SEP97	
3690	SPRINKLER ROUGH IN	150	150	16SEP97	06OCT97	
3700	PLUMBING ROUGH IN	50	50	16SEP97	22SEP97	
3720	ELECTRICAL ROUGH IN	100	100	16SEP97	29SEP97	
3740	HVAC ROUGH IN	60	60	16SEP97	23SEP97	
3760	DOORS & HARDWARE	50	50	16SEP97	22SEP97	
3780	OWNER FURNISHED/OWNER INSTALLED	+		16SEP97	22SEP97	
3800	HANG LIGHT FIXTURES	50	-	19SEP97	25SEP97	
3820	FINISHES AND DROPS	30	1	24SEP97	26SEP97	
3840	FLOOR FINISHES	50		29SEP97	03OCT97	
		250	+	06OCT97	07NOV97	
3860	OWNERS EQUIPMENT EARLY MOVE	250	250	1000018/	DUNCARI	
4000	MODITORTAL AND VICTORIAL CONTROL			144 ## 07	44 11 11 07	A HODIZONTAL AND VEDTICAL CONTROL
1220	HORIZONTAL AND VERTICAL CONTROL	0	+	14JUL97	11JUL97	A HORIZONTAL AND VERTICAL CONTROL
1240	FOOTING EXCAVATION	- 0	-	14JUL97	11JUL97	FOOTING EXCAVATION
1260	UNDER S.O.G. ROUGH IN - PLUMBING	0	+	14JUL97	11JUL97	-∇ ∆UNDER S.O.G. ROUGH IN - PLUMBING
1280	UNDER S.O.G. ROUGH IN - ELECTRICAL	0	-	14JUL97	11JUL97	L-V. ∆ UNDER S.O.G. ROUGH IN - ELECTRICAL
1300	FORM & POUR FOOTINGS - EXTERIOR	0) 0	14JUL97	11JUL97	FORM & POUR FOOTINGS - EXTERIOR
1320	FORM & POUR FOOTINGS - INTERIOR	0	0	14JUL97	11JUL97	▲ FORM & POUR FOOTINGS - INTERIOR
1340	BELOW GRADE CMU STEM WALLS	0	0	14JUL97	11JUL97	▲ BELOW GRADE CMU STEM WALLS
1360	SAND AND VAPOR BARRIER	0	0	14JUL97	11JUL97	▲ A SAND AND VAPOR BARRIER
1380	FORM & POUR S.O.G.	0	0	14JUL97	11JUL97	FORM & POUR S.O.G.
1400	REINFORCED CMU CONSTRUCTION	5d	5d	14JUL97	18JUL97	REINFORCED CMU CONSTRUCTION
1445	S.O.G. REMOVAL	12d	12d	24JUL97	08AUG97	S.O.G. REMOVAL
1450	S.O.G. FORM & POUR	5d		11AUG97	15AUG97	S.O.G. FORM &
1522	INSULATION	1d		12SEP97	12SEP97	
1525	WALL SHEATHING	4d	+	15SEP97	18SEP97	
1530	PAINT	3d	-	19SEP97	23SEP97	
		2d		24SEP97	25SEP97	
1540	MEZZANINE DECK SHEATHING MEZZANINE HVAC EQUIPMENT	5d		28SEP97	02OCT97	
1580		+	+	-		
1590	SPRINKLER ROUGH IN	20d		24SEP97	21OCT97	
1640	PLUMBING ROUGH IN	30d	-	24SEP97	04NOV97	
1660	ELECTRICAL ROUGH IN	20d		24SEP97	21OCT97	
1680	HVAC ROUGH IN	10d	-	24SEP97	07OCT97	
	DOORS & HARDWARE	5d		24SEP97	30SEP97	
1740	OWNER FURNISHED OWNER INSTALLED	+		24SEP97	30SEP97	
176 0	HANG LIGHT FIXTURES	15d	-	01OCT97	21OCT97	
1770	FINISHES AND DROPS	4d		05NOV97	10NOV97	
1780	FLOOR FINISHES	5d	5d	11NOV97	17NOV97	
1800	OWNERS EQUIPMENT EARLY MOVE	1d	1d	18NOV97	18NOV97	
1860	HORIZONTAL AND VERTICAL CONTROL	0	0	14JUL97	11JUL97	→ A HORIZONTAL AND VERTICAL CONTROL
1880	FOOTING EXCAVATION	0		14JUL97	11JUL97	FOOTING EXCAVATION
1900	UNDER S.O.G. ROUGH IN - PLUMBING	0		14JUL97	11JUL97	UNDER S.O.G. ROUGH IN - PLUMBING
1920	UNDER S.O.G. ROUGH IN - ELECTRICAL	0	-	14JUL97	11JUL97	UNDER S.O.G. ROUGH IN - ELECTRICAL
	FORM & POUR FOOTINGS - EXTERIOR	0		14JUL97	11JUL97	FORM & POUR FOOTINGS - EXTERIOR
	FORM & POUR FOOTINGS - INTERIOR	0		14JUL97	11JUL97	FORM & POUR FOOTINGS - INTERIOR
1980		-		14JUL97	11JUL97	BELOW GRADE CMU STEM WALLS
	RELOW GRADE CHILISTEM WALLS			-		V AUNDER S.O.G. PREP
2000	BELOW GRADE CMU STEM WALLS	0		144111107		7
	UNDER S.O.G. PREP	0	0	14JUL97	11JUL97	L TO FORM & POLID S.O.C.
2020	UNDER S.O.G. PREP FORM & POUR S.O.G.	0 1d	0 1d	14JUL97	14JUL97	FORM & POUR S.O.G.
2020 2040	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION	0 1d 5d	0 1d 5d	14JUL97 21JUL97	14JUL97 25JUL97	REINFORCED CMU CONSTRUCTION
2020 2040 2120	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER	0 1d 5d 2d	0 1d 5d 2d	14JUL97 21JUL97 28JUL97	14JUL97 25JUL97 29JUL97	REINFORCED CMU CONSTRUCTION THE LAT INTERIOR CMU VENEER
2020 2040 2120 2140	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING	0 1d 5d 2d 2d	0 1d 5d 2d 2d	14JUL97 21JUL97 28JUL97 11AUG97	14JUL97 25JUL97 29JUL97 12AUG97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2160	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT	0 1d 5d 2d 2d 5d	0 1d 5d 2d 2d 5d	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97	14JUL97 25JUL97 29JUL97 12AUG97 19AUG97	REINFORCED CMU CONSTRUCTION THE LAT INTERIOR CMU VENEER
2020 2040 2120 2140 2180 2250	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING	0 1d 5d 2d 2d 5d 14d	0 1d 5d 2d 2d 5d 5d	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97 27AUG97	14JUL97 25JUL97 29JUL97 12AUG97 19AUG97 16SEP97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2180 2250	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT	0 1d 5d 2d 2d 5d	0 1d 5d 2d 2d 5d 5d	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97	14JUL97 25JUL97 29JUL97 12AUG97 19AUG97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2180 2250	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING	0 1d 5d 2d 2d 5d 14d	0 1d 5d 2d 2d 5d 5d 14d 3d	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97 27AUG97	14JUL97 25JUL97 29JUL97 12AUG97 19AUG97 16SEP97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2180 2250 2260 2270	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING INSULATION	0 1d 5d 2d 2d 5d 14d 3d	0 1d 5d 2d 2d 5d 14d 3d	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97 27AUG97 17SEP97	14JUL97 25JUL97 29JUL97 12AUG97 19AUG97 16SEP97 19SEP97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2160 2250 2260 2270 2300	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING INSULATION SPRINKLER ROUGH IN	0 1d 5d 2d 2d 5d 14d 3d 15d	0 1d 5d 2d 2d 5d 14d 3d 15d 10d	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97 27AUG97 17SEP97	14JUL97 25JUL97 28JUL97 12AUG97 19AUG97 16SEP97 19SEP97 07OCT97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2160 2250 2260 2270 2300 2320	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING INSULATION SPRINKLER ROUGH IN PLUMBING ROUGH IN	0 1d 5d 2d 2d 5d 14d 3d 15d 10d	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 6d	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97 27AUG97 17SEP97 17SEP97	14JUL97 25JUL97 29JUL97 12AUG97 19AUG97 16SEP97 19SEP97 07OCT97 30SEP97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2160 2250 2260 2270 2300 2320	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING INSULATION SPRINKLER ROUGH IN PLUMBING ROUGH IN ELECTRICAL ROUGH IN HVAC ROUGH IN	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 6d	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 6d	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97 27AUG97 17SEP97 17SEP97 17SEP97 17SEP97 20AUG97	14JUL97 25JUL97 28JUL97 12AUG97 19AUG97 18SEP97 19SEP97 07OCT97 30SEP97 24SEP97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2160 2250 2250 2270 2300 2340 2360	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING INSULATION SPRINKLER ROUGH IN PLUMBING ROUGH IN ELECTRICAL ROUGH IN HVAC ROUGH IN SHEET ROCK	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 6d 10d	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 6d 10d	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97 27AUG97 17SEP97 17SEP97 17SEP97 17SEP97 20AUG97 01OCT97	14JUL97 25JUL97 28JUL97 12AUG97 18AUG97 18SEP97 07OCT97 30SEP97 24SEP97 03SEP97 14OCT97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2160 2250 2250 2260 2270 2300 2340 2380	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING INSULATION SPRINKLER ROUGH IN PLUMBING ROUGH IN ELECTRICAL ROUGH IN HVAC ROUGH IN SHEET ROCK MUD & TAPE	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 10d 10d 10d	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 6d 10d 10d	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97 27AUG97 17SEP97 17SEP97 17SEP97 20AUG97 01OCT97 08OCT97	14JUL97 25JUL97 28JUL97 12AUG97 18AUG97 18SEP97 19SEP97 07OCT97 30SEP97 24SEP97 03SEP97 14OCT97 21OCT97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2180 2250 2250 2260 2270 2300 2320 2380 2380 2380	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING INSULATION SPRINKLER ROUGH IN PLUMBING ROUGH IN ELECTRICAL ROUGH IN HVAC ROUGH IN SHEET ROCK MUD & TAPE ACOUSTICAL CEILINGS	0 1d 5d 2d 2d 5d 14d 3d 15d 6d 10d 10d 5d	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 6d 10d 10d 10d 5d	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97 27AUG97 17SEP97 17SEP97 17SEP97 20AUG97 01OCT97 08OCT97 29OCT97	14JUL97 25JUL97 29JUL97 12AUG97 19AUG97 18SEP97 19SEP97 07CEP97 30SEP97 24SEP97 03SEP97 14OCT97 21OCT97 04NOV97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2160 2250 2250 2270 2330 2330 2380 2380 2390	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING INSULATION SPRINKLER ROUGH IN PLUMBING ROUGH IN ELECTRICAL ROUGH IN HVAC ROUGH IN SHEET ROCK MUD & TAPE ACOUSTICAL CEILINGS PAINT	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 10d 10d 5d 5d 5d	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 10d 10d 10d 5d 5d	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97 27AUG97 17SEP97 17SEP97 17SEP97 20AUG97 01OCT97 08OCT97 29OCT97	14JUL97 25JUL97 29JUL97 12AUG97 19AUG97 19SEP97 19SEP97 07OCT97 30SEP97 24SEP97 03SEP97 14OCT97 21OCT97 04NOV97 28OCT97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2160 2250 2260 2270 2330 2330 2380 2380 2390 2400 2410	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING INSULATION SPRINKLER ROUGH IN PLUMBING ROUGH IN ELECTRICAL ROUGH IN HVAC ROUGH IN SHEET ROCK MUD & TAPE ACOUSTICAL CEILINGS PAINT LOW VOLTAGE & FIRE ALARM	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 10d 5d 5d 15d 15d	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 10d 5d 5d 15d 15d	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97 17SEP97 17SEP97 17SEP97 17SEP97 20AUG97 01OCT97 08OCT97 29OCT97 29OCT97	14JUL97 25JUL97 29JUL97 12AUG97 19AUG97 18SEP97 19SEP97 07OCT97 30SEP97 24SEP97 03SEP97 14OCT97 21OCT97 04NOV97 28OCT97 18NOV97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2140 2140 2160 2250 2250 2270 2300 2320 2340 2380 2380 2380 2380 2390 2410	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING INSULATION SPRINKLER ROUGH IN PLUMBING ROUGH IN ELECTRICAL ROUGH IN HVAC ROUGH IN SHEET ROCK MUD & TAPE ACOUSTICAL CEILINGS PAINT LOW VOLTAGE & FIRE ALARM DOORS & HARDWARE	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 10d 10d 5d 5d 5d 5d 5d	0 1 1 d 5 d 2 d 2 d 2 d 3 d 5 d 1 4 d 3 d 1 5 d 1 0 d 1 0 d 5 d 5 d 5 d 5 d 5 d 5 d 5 d 5 d 5 d	14JUL97 21JUL97 28JUL97 11AUG97 11AUG97 13AUG97 17SEP97 17SEP97 17SEP97 20AUG97 01OCT97 29OCT97 29OCT97 29OCT97	14JUL97 25JUL97 28JUL97 12AUG97 19AUG97 19SEP97 19SEP97 07OCT97 24SEP97 03SEP97 14OCT97 24OCT97 04NOV97 18NOV97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2140 2140 2160 2250 2250 2260 2270 2300 2320 2340 2380 2380 2380 2380 2440	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING INSULATION SPRINKLER ROUGH IN PLUMBING ROUGH IN PLUMBING ROUGH IN SHEET ROCK MUD & TAPE ACOUSTICAL CEILINGS PAINT LOW VOLTAGE & FIRE ALARM DOORS & HARDWARE FOLDING PARTITIONS	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 10d 10d 5d 5d 15d 5d 5d 5d	0 1d 5d 2d 2d 2d 3d 3d 15d 10d 10d 10d 5d	14JUL97 21JUL97 28JUL97 11AUG97 11AUG97 13AUG97 17SEP97 17SEP97 17SEP97 20AUG97 01OCT97 08OCT97 29OCT97 29OCT97 29OCT97 29OCT97	14JUL97 25JUL97 28JUL97 12AUG97 19AUG97 19SEP97 19SEP97 07OCT97 30SEP97 24SEP97 03SEP97 14OCT97 21OCT97 04NOV97 18NOV97 04NOV97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2180 2250 2250 2270 2300 2320 2340 2380 2380 2390 2440 2410 2420	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING INSULATION SPRINKLER ROUGH IN PLUMBING ROUGH IN PLUMBING ROUGH IN SHEET ROCK MUD & TAPE ACOUSTICAL CEILINGS PAINT LOW VOLTAGE & FIRE ALARM DOORS & HARDWARE FOLDING PARTITIONS OWNER FURNISHED/OWNER INSTALLED	0 0 1d 5d 2d 2d 2d 5d 5d 15d 10d 10d 10d 15d 5d 5	0 1 1 dd 5 dd 2 dd 2 dd 5 dd 1 4 dd 1 5 dd 1 1 0 dd 1 1 0 dd 1 1 0 dd 1 5 dd 5 dd	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97 17SEP97 17SEP97 17SEP97 20AUG97 01OCT97 08OCT97 29OCT97 29OCT97 29OCT97 29OCT97	14JUL97 25JUL97 28JUL97 12AUG97 18AUG97 18SEP97 18SEP97 07OCT97 30SEP97 24SEP97 03SEP97 14OCT97 24NOV97 18NOV97 04NOV97 04NOV97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2160 2250 2250 2270 2300 2320 2340 2380 2380 2390 2400 2410 2420	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING INSULATION SPRINKLER ROUGH IN PLUMBING ROUGH IN PLUMBING ROUGH IN SHEET ROCK MUD & TAPE ACOUSTICAL CEILINGS PAINT LOW VOLTAGE & FIRE ALARM DOORS & HARDWARE FOLDING PARTITIONS	0 1d 5d 2d 2d 5d 14d 3d 15d 10d 10d 10d 5d 5d 15d 5d 5d 5d	0 1 1 dd 5 dd 2 dd 2 dd 5 dd 1 4 dd 1 5 dd 1 1 0 dd 1 1 0 dd 1 1 0 dd 1 5 dd 5 dd	14JUL97 21JUL97 28JUL97 11AUG97 11AUG97 13AUG97 17SEP97 17SEP97 17SEP97 20AUG97 01OCT97 08OCT97 29OCT97 29OCT97 29OCT97 29OCT97	14JUL97 25JUL97 28JUL97 12AUG97 19AUG97 19SEP97 19SEP97 07OCT97 30SEP97 24SEP97 03SEP97 14OCT97 21OCT97 04NOV97 18NOV97 04NOV97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S
2020 2040 2120 2140 2160 2250 2250 2270 2300 2320 2340 2380 2380 2390 2400 2410 2410 2420 2440 2440 2440	UNDER S.O.G. PREP FORM & POUR S.O.G. REINFORCED CMU CONSTRUCTION INTERIOR CMU VENEER MEZZANINIE DECK SHEATHING MEZZANINIE HVAC EQUIPMENT FRAMING INSULATION SPRINKLER ROUGH IN PLUMBING ROUGH IN PLUMBING ROUGH IN SHEET ROCK MUD & TAPE ACOUSTICAL CEILINGS PAINT LOW VOLTAGE & FIRE ALARM DOORS & HARDWARE FOLDING PARTITIONS OWNER FURNISHED/OWNER INSTALLED	0 0 1d 5d 2d 2d 2d 5d 5d 15d 10d 10d 10d 15d 5d 5	0 1 1 dd 5 dd 2 dd 2 dd 2 dd 3 dd 1 5 dd 1 1 0 dd 1 1 0 dd 1 1 0 dd 1 1 0 dd 1 5 dd 1 5 dd 5 dd	14JUL97 21JUL97 28JUL97 11AUG97 13AUG97 17SEP97 17SEP97 17SEP97 20AUG97 01OCT97 08OCT97 29OCT97 29OCT97 29OCT97 29OCT97	14JUL97 25JUL97 28JUL97 12AUG97 18AUG97 18SEP97 18SEP97 07OCT97 30SEP97 24SEP97 03SEP97 14OCT97 24NOV97 18NOV97 04NOV97 04NOV97	REINFORCED CMU CONSTRUCTION THE LAW INTERIOR CMU VENEER THE MEZZANINIE DECK S





PLUMBING ROUGH IN

ELECTRICAL ROUGH IN

SHEET ROCK

MUD & TAPE

ACOUSTICAL CEILINGS

PAINT

LOW VOLTAGE & FIRE ALARM

DOORS & HARDWARE

FOLDING PARTITIONS

OWNER FURNISHED/OWNER INSTALLED

SPRINKLER FINISHES

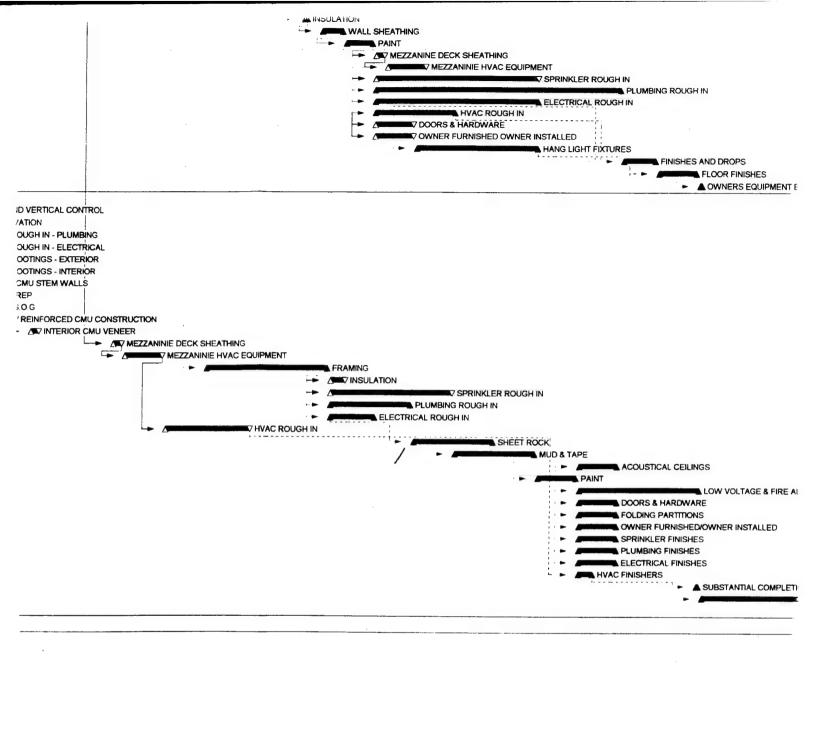
PLUMBING FINISHES



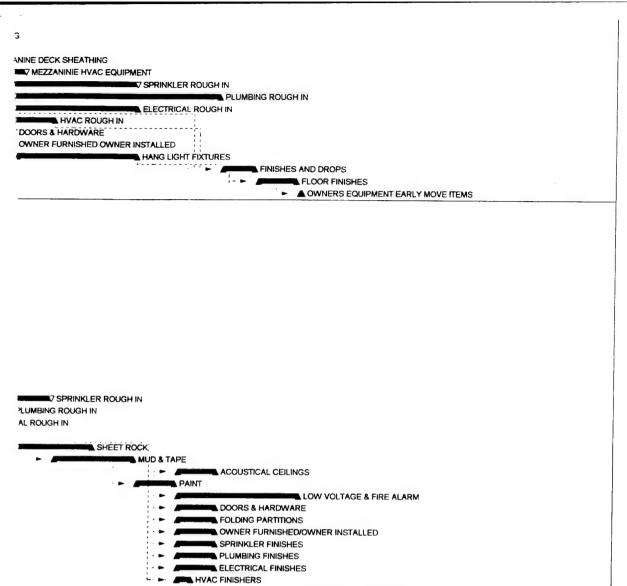
1525 1530	PAINT	4d		15SEP97	
1540	·		-		-
1560	MEZZANINE DECK SHEATHING	2d	+	24SEP97	25SEP97
	MEZZANINIE HVAC EQUIPMENT	5d	_	26SEP97	
1590	SPRINKLER ROUGH IN	20d	-	24SEP97	21OCT97
1640	PLUMBING ROUGH IN	30d	+	24SEP97	04NOV97
1660	ELECTRICAL ROUGH IN	20d	200	24SEP97	21OCT97
1680	HVAC ROUGH IN	10d	10d	24SEP97	07OCT97
1700	DOORS & HARDWARE	5d	5d	24SEP97	30SEP97
1740	OWNER FURNISHED OWNER INSTALLED	D 5d	5d	24SEP97	30SEP97
1760	HANG LIGHT FIXTURES	15d	15d	01OCT97	21OCT97
1770	FINISHES AND DROPS	4d	4d	05NOV97	10NOV97
1780	FLOOR FINISHES	5d	5d	11NOV97	17NOV97
1800	OWNERS EQUIPMENT EARLY MOVE	1d	1d	18NOV97	18NOV97
	F # 11			THE PERSON	
1860	HORIZONTAL AND VERTICAL CONTROL	0	0	14JUL97	11JUL97
1880	FOOTING EXCAVATION	0	_	14JUL97	11JUL97
1900	UNDER S.O.G. ROUGH IN - PLUMBING	0		14JUL97	11JUL97
1920	UNDER S.O.G. ROUGH IN - ELECTRICAL	0		14JUL97	11JUL97
1940	FORM & POUR FOOTINGS - EXTERIOR	0		14JUL97	
1960	FORM & POUR FOOTINGS - INTERIOR	0			11JUL97
1980	BELOW GRADE CMU STEM WALLS			14JUL97	11JUL97
2000	· · · · · · · · · · · · · · · · · · ·	0		14JUL97	11JUL97
	UNDER S.O.G. PREP	0		14JUL97	11JUL97
2020	FORM & POUR S.O.G.	1d		14JUL97	14JUL97
2040	REINFORCED CMU CONSTRUCTION	5d		21JUL97	25JUL97
120	INTERIOR CMU VENEER	2d		28JUL97	29JUL97
140	MEZZANINIE DECK SHEATHING	2d		11AUG97	12AUG97
160	MEZZANINIE HVAC EQUIPMENT	5d	5d	13AUG97	19AUG97
2250	FRAMING	14d	14d	27AUG97	16SEP97
260	INSULATION	3d	3d	17SEP97	19SEP97
270	SPRINKLER ROUGH IN	15d	15d	17SEP97	07OCT97
300	PLUMBING ROUGH IN	10d	10d	17SEP97	30SEP97
320	ELECTRICAL ROUGH IN	6d	6d	17SEP97	24SEP97
340	HVAC ROUGH IN	10d	10d	20AUG97	03SEP97
360	SHEET ROCK	10d	10d	01OCT97	14OCT97
380	MUD & TAPE	10d		08OCT97	21OCT97
390	ACOUSTICAL CEILINGS	5d		29OCT97	104NOV97
100	PAINT	5d		22OCT97	280CT97
110	LOW VOLTAGE & FIRE ALARM	15d	-	29OCT97	18NOV97
20	DOORS & HARDWARE	5d		29OCT97	104NOV97
140	FOLDING PARTITIONS	5d		29OCT97	04NOV97
180	OWNER FURNISHED/OWNER INSTALLED	5d		29OCT97	04NOV97
170	SPRINKLER FINISHES	5d	-	29OCT97	
500	PLUMBING FINISHES		-		04NOV97
20		5d		29OCT97	04NOV97
30	ELECTRICAL FINISHES HVAC FINISHERS	5d		29OCT97	04NOV97
550		3d		29OCT97	31OCT97
	SUBSTANTIAL COMPLETION	1d		8NOV97	18NOV97
570 590	PUNCH LIST			9NOV97	17DEC97
	CERTIFICATE OF OCCUPANCY	1d	10 1	8DEC97	18DEC97

Progress bar
Critical bar
Summary bar
Progress point
Critical point
Summary point
Start milestone point
Finish milestone poin

(1)







▲ SUBSTANTIAL COMPLETION

SDDEACON GENERAL CONTRACTOR

► ▲ CERTIFICATE OF OCCUPANCY

PUNCH LIST

CLATSOP COMMUNITY COLLEGE

MERTS Campus Construction

Field Research & Integrated Marine Technologies Center Project

Date: 8/28/97

To: CCC Board Members & Staff From: Al Jaques, Project Manager

Re: Construction Progress Report 4/21/97-8/28/97, 130 Contract Days to Date

Status Legend: Completed / Ongoing / Scheduled

Owner's testing representative Braun/Intertec on-site for inspection & testing requirements

O CCC & Astoria Police Department providing random security patrols

O Site cuts/fills (excavation/grading to design specs) 80% to date

S Final sub-grading preparation prior to paving

C Roof drain underground piping runs w/cleanouts

C Foundation perimeter drains

C SOG replacement in Fabrication shop

C All main structure SOG poured

C First coat of sealer & hardener applied to all interior SOG

S Fabrication shop exterior SOG

S Sidewalks

S Asphalt paving

O Site-lighting conduit runs & light pole bases, 90% complete

© Electrical transformer pad/vault and pull (junction) boxes set

C Excavate & install primary electrical conduits

O Communications tie-conduits between phase 1 & 2 bldgs

O Fire alarm interface phase 1 & 2 bldgs

<u>C</u> Northwest Natural Gas, mains & services to campus buildings

C Exterior / Interior structural masonry walls

© Damproofing application on CMU walls prior to veneer lay-up

C Rigid insulation installation on CMU walls prior to veneer lay-up

O Exterior veneer block installation, 95% complete

O Structural steel erection & roof decking, 95% complete

Q Membrane built-up roofing @ flat roofs, 95% complete

Q Insulation & metal roofing installation

Q Exterior / Interior gauge framing (metal studs)

Q Field verification for rough opening of windows prior to fabrication

- Q CMU wall filler (base paint) & misc. painting preparation
- **Q** Interior piping infrastructure
- O HVAC infrastructure
- **Q** Interior electrical infrastructure

Contractors on site

Workforce on-site at present: approx. 50

- > Electrical, Wadsworth Electric Co.
- Plumbing, J P Plumbing Co.
- > Testing & Inspection, Braun Intertec
- Masonry Grout Supplier, A1 Ready Mix
- Concrete Supplier, Fisher Ready Mix
- Steel Fabrication & Erection, Fisher Fabrication
- Gauge Framing, Landco
- Metal Roofing & Siding, Architectural Metal Works
- Painting, Black Oak Construction
- Masonry, B & B Tile and Masonry
- Concrete Slab Cleaning & Application of Hardener/Sealer, Brightway Inc.
- > Earthwork, Jim Wilkins Co.
- Glazing (Windows), Culver Glass
- > HVAC, HVAC Inc.

Coordination Activities

- > Weekly scheduled team meetings, (General Contractor, Architect & Owner's Rep.)
- > Weekly scheduled sub-contractors meetings, providing review of project status in terms of three week outlook, safety issues and project coordination requirements.
- > 8/19/97, Mechanical & Electrical infrastructure coordination meeting with all relevant subcontractors
- > 8/25/97, OSHA consultation on-site w/General and Subcontractors

Schedule Status

Overall schedule status to date: approximately 20 days behind due to weather, late steel deliveries & erection delays. Coordination efforts are ongoing with all subcontractors to rectify any schedule deviation.

Budget Status

- > Ten add/deduct CO's to date resulting in savings of \$16,289 below the original GMP
- Contract GMP \$3,706,469, Current GMP with CO's to-date, \$3,690,180
- Overall project expenditures to-date approximately \$1,800,000
- ▶ Overall construction contract expenditures to-date approximately \$1,002,000

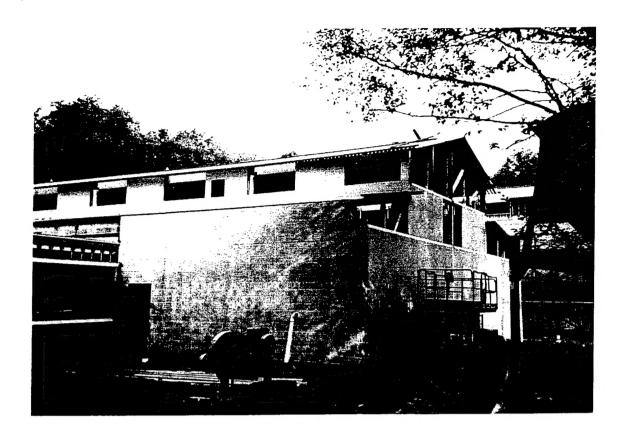
Legend

SOG Slab-on-Grade

GMP Guaranteed Maximum Price (General Contractor's Construction Contract with Owner)

CO's Change Orders

OSHA Occupational Safety & Health Administration





Construction of MERTS Field Research/ Integrated Marine Technology Center as of 28 August 1997

